

Entrez PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search PubMed for Charo AND Myers AND Herman AND 1994 Go Clear

Limits Preview/Index History Clipboard Details

Display Summary Show: 20 Sort Send to Text

About Entrez

Text Version

Entrez PubMed

Overview

Help | FAQ

Tutorial

New/Noteworthy

E-Utilities

PubMed Services

Journals Database

MeSH Database

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

LinkOut

Cubby

Related Resources

Order Documents

NLM Catalog

NLM Gateway

TOXNET

Consumer Health

Clinical Alerts

ClinicalTrials.gov

PubMed Central

1: Charo JF, Myers SJ, Herman A, Francis C, Connolly AJ, Coughlin SR. Related Articles, Links



Molecular cloning and functional expression of two monocyte chemoattractant protein 1 receptors reveals alternative splicing of the carboxyl-terminal tails.

Proc Natl Acad Sci U S A. 1994 Mar 29;91(7):2752-6.

PMID: 8146186 [PubMed - indexed for MEDLINE]

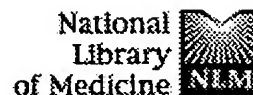
[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

[Department of Health & Human Services](#)

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Jan 25 2005 16:15:24



[Entrez](#)
[PubMed](#)
[Nucleotide](#)
[Protein](#)
[Genome](#)
[Structure](#)
[OMIM](#)
[PMC](#)
[Journals](#)
[Books](#)

Search  for

[Limits](#)
[Preview/Index](#)
[History](#)
[Clipboard](#)
[Details](#)

Show:

[About Entrez](#)

[Text Version](#)

[Entrez PubMed](#)

[Overview](#)

[Help | FAQ](#)

[Tutorial](#)

[New/Noteworthy](#)

[E-Utilities](#)

[PubMed Services](#)

[Journals Database](#)

[MeSH Database](#)

[Single Citation Matcher](#)

[Batch Citation Matcher](#)

[Clinical Queries](#)

[LinkOut](#)

[Cubby](#)

[Related Resources](#)

[Order Documents](#)

[NLM Catalog](#)

[NLM Gateway](#)

[TOXNET](#)

[Consumer Health](#)

[Clinical Alerts](#)

[ClinicalTrials.gov](#)

[PubMed Central](#)

☐ 1: Proc Natl Acad Sci U S A. 1994 Mar 29;91(7):2752-6.

[Related Articles, Links](#)

FREE full-text article at  
[www.pnas.org](http://www.pnas.org)

FREE full-text article  
in PubMed Central

## Molecular cloning and functional expression of two monocyte chemoattractant protein 1 receptors reveals alternative splicing of the carboxyl-terminal tails.

Charo IF, Myers SJ, Herman A, Franci C, Connolly AJ, Coughlin SR.

Gladstone Institute of Cardiovascular Disease, San Francisco, CA 94141-9100.

Monocyte chemoattractant protein 1 (MCP-1) is a member of the chemokine family of cytokines that mediate leukocyte chemotaxis. The potent and specific activation of monocytes by MCP-1 may mediate the monocytic infiltration of tissues in atherosclerosis and other inflammatory diseases. We have isolated cDNAs that encode two MCP-1-specific receptors with alternatively spliced carboxyl tails. Expression of the receptors in *Xenopus* oocytes conferred robust mobilization of intracellular calcium in response to nanomolar concentrations of MCP-1 but not to related chemokines. The MCP-1 receptors are most closely related to the receptor for the chemokines macrophage inflammatory protein 1 alpha and RANTES (regulated on activation, normal T expressed and secreted). The identification of the MCP-1 receptor and cloning of two distinct isoforms provide powerful tools for understanding the specificity and signaling mechanisms of this important chemokine.

PMID: 8146186 [PubMed - indexed for MEDLINE]

Show:

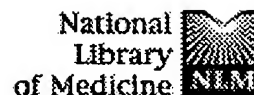
[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

[Department of Health & Human Services](#)

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Jan 25 2005 16:15:24



Entrez PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search PubMed for Yamagami AND Tokuda AND 1994 Go Clear

Limits Preview/Index History Clipboard Details

Display Summary Show: 20 Sort Send to Text

About Entrez

Text Version

Entrez PubMed

Overview

Help | FAQ

Tutorial

New/Noteworthy

E-Utilities

PubMed Services

Journals Database

MeSH Database

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

LinkOut

Cubby

Related Resources

Order Documents

NLM Catalog

NLM Gateway

TOXNET

Consumer Health

Clinical Alerts

ClinicalTrials.gov

PubMed Central

☐ 1: Yamagami S, Tokuda Y, Ishii K, Tanaka H, Endo N.

[Related Articles, Links](#)



cDNA cloning and functional expression of a human monocyte chemoattractant protein 1 receptor.

Biochem Biophys Res Commun. 1994 Jul 29;202(2):1156-62.

PMID: 8048929 [PubMed - indexed for MEDLINE]

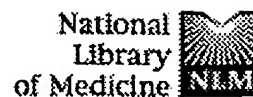
[Write to the Help Desk](#)

[NCBI | NLM | NIH](#)

[Department of Health & Human Services](#)

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Jan 25 2005 16:15:24



Entrez PubMed Nucleotide Protein Genomes Structure OMIM PMC Journals Books

Search PubMed for [ ] Go Clear

Limits

Preview/Index

History

Clipboard

Details

Display

Abstract

Show:

20

Sort

Send to

Text

[About Entrez](#)
[Text Version](#)

☐ 1: Biochem Biophys Res Commun. 1994 Jul 29;202(2):1156-62.

[Related Articles](#)
[Links](#)
[Entrez PubMed](#)
[Overview](#)
[Help | FAQ](#)
[Tutorial](#)
[New/Noteworthy](#)
[E-Utilities](#)
[PubMed Services](#)
[Journals Database](#)
[MeSH Database](#)
[Single Citation Matcher](#)
[Batch Citation Matcher](#)
[Clinical Queries](#)
[LinkOut](#)
[Cubby](#)
[Related Resources](#)
[Order Documents](#)
[NLM Catalog](#)
[NLM Gateway](#)
[TOXNET](#)
[Consumer Health](#)
[Clinical Alerts](#)
[ClinicalTrials.gov](#)
[PubMed Central](#)


## cDNA cloning and functional expression of a human monocyte chemoattractant protein 1 receptor.

Yamagami S, Tokuda Y, Ishii K, Tanaka H, Endo N.

Pharmaceutical Discovery Research Laboratories, Teijin Institute for Biomedical Research, Tokyo, Japan.

A novel human G-protein-coupled seven-transmembrane-type receptor gene, 24-1, has been cloned from THP-1 cells. The 24-1 was 56% and 34% identical to the macrophage inflammatory protein-1 alpha (MIP-1 alpha) receptor and the interleukin-8 (IL-8) receptors at the amino acid level, respectively. To examine the ligand specificity of the receptor, we have established a stable transfectant of this gene with human kidney 293 cells. Monocyte chemoattractant protein-1 (MCP-1) induced a rapid increase of Ca<sup>++</sup> influx in the 24-1-transfectant, while other C-C chemokines tested did not. This indicates that the 24-1 encodes the human MCP-1 receptor.

PMID: 8048929 [PubMed - indexed for MEDLINE]

Display

Abstract

Show:

20

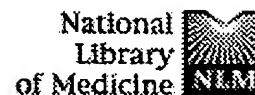
Sort

Send to

Text

[Write to the Help Desk](#)
[NCBI | NLM | NIH](#)
[Department of Health & Human Services](#)
[Privacy Statement | Freedom of Information Act | Disclaimer](#)

Jan 25 2005 16:15:24



Entrez PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search PubMed for MCP-1RA Go Clear

Limits Preview/Index History Clipboard Details

Display Summary Show: 500 Sort Send to Text

About Entrez

Items 501 - 520 of 520

Previous Page 2 of 2

Text Version

Entrez PubMed

Overview

Help | FAQ

Tutorial

New/Noteworthy

E-Utilities

PubMed Services

Journals Database

MeSH Database

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

LinkOut

Cubby

Related Resources

Order Documents

NLM Catalog

NLM Gateway

TOXNET

Consumer Health

Clinical Alerts

ClinicalTrials.gov

PubMed Central

☐ 501: [Arai H, Charo IF.](#)

[Related Articles, Links](#)



**Differential regulation of G-protein-mediated signaling by chemokine receptors.**

J Biol Chem. 1996 Sep 6;271(36):21814-9.

PMID: 8702980 [PubMed - indexed for MEDLINE]

☐ 502: [Heesen M, Tanabe S, Berman MA, Yoshizawa I, Luo Y, Kim RJ, Post TW, Gerard C, Dorf ME.](#)

[Related Articles, Links](#)



**Mouse astrocytes respond to the chemokines MCP-1 and KC, but reverse transcriptase-polymerase chain reaction does not detect mRNA for the KC or new MCP-1 receptor.**

J Neurosci Res. 1996 Aug 15;45(4):382-91.

PMID: 8872898 [PubMed - indexed for MEDLINE]

☐ 503: [Montecclaro FS, Charo IF.](#)

[Related Articles, Links](#)



**The amino-terminal extracellular domain of the MCP-1 receptor, but not the RANTES/MIP-1alpha receptor, confers chemokine selectivity. Evidence for a two-step mechanism for MCP-1 receptor activation.**

J Biol Chem. 1996 Aug 9;271(32):19084-92.

PMID: 8702581 [PubMed - indexed for MEDLINE]

☐ 504: [Loetscher P, Seitz M, Baggiolini M, Moser B.](#)

[Related Articles, Links](#)



**Interleukin-2 regulates CC chemokine receptor expression and chemotactic responsiveness in T lymphocytes.**

J Exp Med. 1996 Aug 1;184(2):569-77.

PMID: 8760810 [PubMed - indexed for MEDLINE]

☐ 505: [Gharraee-Kermani M, Denholm EM, Phan SH.](#)

[Related Articles, Links](#)



**Costimulation of fibroblast collagen and transforming growth factor beta1 gene expression by monocyte chemoattractant protein-1 via specific receptors.**

J Biol Chem. 1996 Jul 26;271(30):17779-84.

PMID: 8663511 [PubMed - indexed for MEDLINE]

☐ 506: [Meyer A, Coyle AJ, Proudfoot AE, Wells TN, Power CA.](#)

[Related Articles, Links](#)



**Cloning and characterization of a novel murine macrophage inflammatory protein-1 alpha receptor.**

J Biol Chem. 1996 Jun 14;271(24):14445-51. Erratum in: J Biol Chem 1996 Sep 20;271(38):23601.

PMID: 8662890 [PubMed - indexed for MEDLINE]

☐ 507: [Kurihara T, Bravo R.](#)

[Related Articles, Links](#)



**Cloning and functional expression of mCCR2, a murine receptor for the C-C chemokines JE and FIC.**

J Biol Chem. 1996 May 17;271(20):11603-7.

PMID: 8662823 [PubMed - indexed for MEDLINE]


 **508:** [al-Aoukaty A, Schall TJ, Maghazachi AA.](#) [Related Articles, Links](#)



Differential coupling of CC chemokine receptors to multiple heterotrimeric G proteins in human interleukin-2-activated natural killer cells.

Blood. 1996 May 15;87(10):4255-60.

PMID: 8639784 [PubMed - indexed for MEDLINE]


 **509:** [Boring L, Gosling J, Montecarlo FS, Lulis AJ, Tsou CL, Charo IF.](#) [Related Articles, Links](#)



Molecular cloning and functional expression of murine JE (monocyte chemoattractant protein 1) and murine macrophage inflammatory protein 1alpha receptors: evidence for two closely linked C-C chemokine receptors on chromosome 9.

J Biol Chem. 1996 Mar 29;271(13):7551-8.

PMID: 8631787 [PubMed - indexed for MEDLINE]

 **510:** [Qin S, LaRosa G, Campbell JJ, Smith-Heath H, Kassam N, Shi X, Zeng L, Butcher EC, Mackay CR.](#) [Related Articles, Links](#)



Expression of monocyte chemoattractant protein-1 and interleukin-8 receptors on subsets of T cells: correlation with transendothelial chemotactic potential.

Eur J Immunol. 1996 Mar;26(3):640-7.

PMID: 8605932 [PubMed - indexed for MEDLINE]


 **511:** [Kuang Y, Wu Y, Jiang H, Wu D.](#) [Related Articles, Links](#)



Selective G protein coupling by C-C chemokine receptors.

J Biol Chem. 1996 Feb 23;271(8):3975-8.

PMID: 8626727 [PubMed - indexed for MEDLINE]


 **512:** [Dubois PM, Palmer D, Webb ML, Ledbetter JA, Shapiro RA.](#) [Related Articles, Links](#)



Early signal transduction by the receptor to the chemokine monocyte chemotactic protein-1 in a murine T cell hybrid.

J Immunol. 1996 Feb 15;156(4):1356-61.

PMID: 8568234 [PubMed - indexed for MEDLINE]

 **513:** [Combadiere C, Ahuja SK, Van Damme J, Tiffany HL, Gao JL, Murphy PM.](#) [Related Articles, Links](#)



Monocyte chemoattractant protein-3 is a functional ligand for CC chemokine receptors 1 and 2B.

J Biol Chem. 1995 Dec 15;270(50):29671-5.

PMID: 8530354 [PubMed - indexed for MEDLINE]

 **514:** [Denholm EM, Stankus GP.](#) [Related Articles, Links](#)



Changes in the expression of MCP-1 receptors on monocytic THP-1 cells following differentiation to macrophages with phorbol myristate acetate.

Cytokine. 1995 Jul;7(5):436-40.

PMID: 7578981 [PubMed - indexed for MEDLINE]

 **515:** [Franci C, Wong LM, Van Damme J, Proost P, Charo IF.](#) [Related Articles, Links](#)



Monocyte chemoattractant protein-3, but not monocyte chemoattractant protein-2, is a functional ligand of the human monocyte chemoattractant protein-1 receptor.

J Immunol. 1995 Jun 15;154(12):6511-7.


PMID: 7759884 [PubMed - indexed for MEDLINE]

 **516:** [Kuhn DE, Beall CJ, Kolattukudy PE.](#) [Related Articles, Links](#)



The cytomegalovirus US28 protein binds multiple CC chemokines with high affinity.

Biochem Biophys Res Commun. 1995 Jun 6;211(1):325-30.  
PMID: 7540006 [PubMed - indexed for MEDLINE]

 **517:** [Myers SJ, Wong LM, Charo IF.](#)

[Related Articles, Links](#)




Signal transduction and ligand specificity of the human monocyte chemoattractant protein-1 receptor in transfected embryonic kidney cells.  
J Biol Chem. 1995 Mar 17;270(11):5786-92.  
PMID: 7890708 [PubMed - indexed for MEDLINE]

 **518:** [Gong JH, Clark-Lewis I.](#)

[Related Articles, Links](#)




Antagonists of monocyte chemoattractant protein 1 identified by modification of functionally critical NH2-terminal residues.  
J Exp Med. 1995 Feb 1;181(2):631-40.  
PMID: 7836918 [PubMed - indexed for MEDLINE]

 **519:** [Gao JL, Murphy PM.](#)

[Related Articles, Links](#)



Human cytomegalovirus open reading frame US28 encodes a functional beta chemokine receptor.  
J Biol Chem. 1994 Nov 18;269(46):28539-42.  
PMID: 7961796 [PubMed - indexed for MEDLINE]

 **520:** [Charo IF, Myers SJ, Herman A, Francis C, Connolly AJ, Coughlin SR.](#)

[Related Articles, Links](#)



Molecular cloning and functional expression of two monocyte chemoattractant protein 1 receptors reveals alternative splicing of the carboxyl-terminal tails.  
Proc Natl Acad Sci U S A. 1994 Mar 29;91(7):2752-6.  
PMID: 8146186 [PubMed - indexed for MEDLINE]

Items 501 - 520 of 520

[Previous](#)

Page

2

of 2

Display

Summary

Show:

500

Sort

Send to

Text

[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

Department of Health & Human Services

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Jan 25 2005 16:15:24